



.Sheet 1 of 4

FORM PTO-1449 (REV. 6-89) INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	Attorney's Docket No. 21153-05920	Serial No. 10/020,572
	Applicant Sol P. DiJaili		
	Filing Date December 14, 2001	Group Art Unit 3662	

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
ma	A	6,335,992 B1	1-1-02	Bala, et al.	385	17	2-15-00
	B	6,333,799 B1	12-25-01	Bala, et al.	359	128	1-6-98
	C	6,317,531 B1	11-13-01	Chen, et al.	385	17	
	D	6,128,115	10-3-00	Shiragaki	359	128	
	E	6,115,517	9-5-00	Shiragaki, et al.	385	24	
	F	6,061,156	5-9-00	Takeshita, et al.	359	117	
	G	5,999,293	12-7-99	Manning	359	139	
	H	5,771,320	6-23-98	Stone	385	16	
	I	5,748,653	5-5-98	Parker, et al.	372	8	
	J	5,436,759	7-25-95	DiJaili, et al.	359	333	
	K	5,305,412	4-19-94	Paoli	385	122	
	L	5,299,054	3-29-94	Geiger	359	251	
	M	4,794,346	12-27-88	Miller	330	4.3	
	N	3,828,231	8-6-74	Yamamoto	357	30	
	O	3,467,906	9-16-69	Cornely, et al.	330	4.3	

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
mfv	P	56006492	1-23-81	Japan	H01S	3/18		No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ma	Q	Alcatel, "Alcatel Optronics introduces a Gain-Clamped Semiconductor Optical Amplifier," <i>Press Release for Immediate Publication</i> , OFC '98, San Jose (Feb. 1998), 1 unnumbered page.
mfv	R	Diez, S. et al., "Gain-Transparent SOA-Switch for High-Bitrate OTDM Add/Drop Multiplexing," <i>IEEE Photonics Technology Letters</i> , Vol. 11, No. 1 (Jan. 1999), pages 60-62.

EXAMINER Mark Hellner	DATE CONSIDERED 09/07/2004
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Am90	S	Diez, S. et al., "Novel Gain-Transparent SOA-Switch for High Bitrate OTDM Add/Drop Multiplexing," ECOC '98, Madrid, Spain (Sept. 1998), pages 461-462.
	T	Diez, S. et al., "All-Optical Switch for TDM and WDM/TDM Systems Demonstrated in a 640Gbit/s Demultiplexing Experiment," <i>Electronics Letters</i> , Vol. 34, No. 8 (April 16, 1998), pages 803-805.
	U	Dorgeuille, F. et al., "1.28 Tbit/s Throughout 8/Spl Times/8 Optical Switch Based on Arrays of Gain-Clamped Semiconductor Optical Amplifier Gates," OFCC 2000, Baltimore, MD, March 2000, Vol. 4, pages 221-223.
	V	Dorgeuille, F. et al., "Fast Optical Amplifier Gate Array for WDM Routing and Switching Applications," OFC'98 Technical Digest, pages 42-44.
	W	Doussiere, P. et al., "Clamped Gain Travelling Wave Semiconductor Optical Amplifier for Wavelength Division Multiplexing Applications," Maui, Hawaii, Sept. 19-23, 1994, New York, IEEE, US, Vol. Conf. 14 (9/14/94), pages 185-186.
	X	Evankow, Joseph D. et al., "Photonic Switching Modules Designed With Laser Diode Amplifiers," <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 6, No. 7 (Aug. 1988), pages 1087-1095.
	Y	Fernier, B. et al., "Fast (300 ps) Polarization-Insensitive Semiconductor Optical Amplifier Switch With Low Driving Current (70 mA)," Semiconductor Laser Conference, September 1992, pages 130-131.
	Z	Fjelde, T. et al., "Influence of RZ and NRZ Signal Format on the High-Speed Performance of Gain-Clamped Semiconductor Optical Amplifiers," <i>Research Center COM</i> , Lyngby, Denmark, pages 87-89.
	AA	Fouquet, J.E. et al., "Compact, Scalable Fiber Optic Cross-Connect Switches," <i>Digest of the LEOS Summer Topical Meetings</i> , San Diego, CA, July 1999, pages 59-60.
	BB	Ibrahim, Magdy M., "Photonic Switch Using Surface-Emitting Laser Diode and APD," NRSC '99, Cairo, Egypt, Feb. 1999, pages D7 1-D7 8.
	CC	Jeong, Gibong et al., "Gain Optimization in Switches Based on Semiconductor Optical Amplifiers," <i>Journal of Lightwave Technology</i> , Vol. 13, No. 4 (April 1995), pages 598-605.
Am90	DD	Kitamura, Shotaro, et al., "Spot-Size Converter Integrated Semiconductor Optical Amplifiers for Optical Gate Applications," <i>IEEE Journal of Quantum Electronics</i> , Vol. 35, No. 7 (July 1999), pages 1067-1074.

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Mark Heller

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mmj	EE	Koyama, F. et al., "Multiple-Quantum-Well GaInAs/GaInAsP Tapered Broad-Area Amplifiers with Monolithically Integrated Waveguide Lens for High-Power Applications," <i>IEEE Photonics Technology Letters</i> , Vol. 5, No. 8 (August 1993), pages 916-919.
	FF	Leuthold, Juerg et al., "All-Optical Space Switches with Gain and Principally Ideal Extinction Ratios," <i>IEEE Journal of Quantum Electronics</i> , Vol. 34, No. 4 (April 1998), pages 622-633.
	GG	Luo, G. et al., "Experimental and Theoretical Analysis of Relaxation-Oscillations and Spectral Hole Burning Effects in All-Optical Gain-Clamped EDFA's for WDM Networks," <i>Journal of Lightwave Technology</i> , Vol. 16, No. 4 (April 1998), pages 527-533.
	HH	McAdams, Larry R. et al., "Linearizing High Performance Semiconductor Optical Amplifiers: Techniques and Performance," LEOS Presentation (1996), Thursday 11:00 AM, pages 363-364.
	II	Mork, J., et al., "Semiconductor Devices for All-Optical Signal Processing: Just How Fast Can They Go?," LEOS '99, San Francisco, CA, November 1999, Vol. 2, pages 900-901.
	JJ	Mutalik, Venkatesh G. et al., "Analog Performance of 1310-nm Gain-Clamped Semiconductor Optical Amplifiers," <i>OFC '97 Technical Digest</i> , Thursday 11:15 AM, pages 266-267.
	KK	Panajotov, K. et al., "Polarisation Switching In Proton-Implanted VCSELs," <i>Digest of the LEOS Summer Topical Meetings</i> , San Diego, CA (July 1999), Thursday 2:45 PM, pages III55-III56.
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	MM	Scheuer, J. et al., "Nonlinear On-Switching of High Spatial Frequency Patterns in Ring Vertical Cavity Surface Emitting Lasers," LEOS '99, San Francisco, CA (Nov. 1999), Vol. 1, pages 123-124.
mmj	NN	Soto, H. et al., "All-Optical Switch Demonstration Using a Birefringence Effect In A Semiconductor Optical Amplifier," <i>CLEO Pacific Rim '99</i> , pages 888-889.

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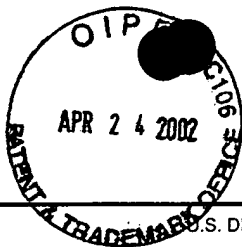
Mark Heller

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		Filing Date December 24, 2001	Group Art Unit 3662

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	PP	Tai, Chien et al., "Dynamic Range and Switching Speed Limitations of an N x N Optical Packet Switch Based on Low-Gain Semiconductor Optical Amplifiers," <i>Journal of Lightwave Technology</i> , Vol. 14, No. 4 (April 1996), pages 525-533.
	QQ	Tiemeijer, L.F. et al., "High-Gain 1310 nm Semiconductor Optical Amplifier Modules with a Built-in Amplified Signal Monitor for Optical Gain Control," <i>IEEE Photonics Technology Letters</i> , Vol. 9, No. 3 (March 1997), pages 309-311.
	RR	Tiemeijer, L.F. et al., "Reduced Intermodulation Distortion in 1300 nm Gain-Clamped MQW Laser Amplifiers," <i>IEEE Photonics Technology Letters</i> , Vol. 7, No. 3 (March 1995), pages 284-286.
	SS	Toptchyski, Gueorgui et al., "Time-Domain Modeling of Semiconductor Optical Amplifiers for OTDM Applications," <i>Journal of Lightwave Technology</i> , Vol. 17, No. 12 (Dec. 1999), pages 2577-2583.
	TT	van Roijen, R. et al., "Over 15 dB Gain From A Monolithically Integrated Optical Switch With An Amplifier," <i>IEEE Photonics Technology Letters</i> , Vol. 5, No. 5 (May 1993), pages 529-531.
QWAD	UU	Yoshimoto, N. et al., "Spot-Size Converted Polarization-Insensitive SOA Gate With A Vertical Tapered Submicrometer Strip Structure," <i>IEEE Photonics Technology Letters</i> , Vol. 10, No. 4 (April 1998), pages 510-512.

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